



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

00001

APR 09 1999

REPLY TO THE ATTENTION OF:

**MEMORANDUM**

**SUBJECT:** ACTION MEMORANDUM - Request for a Ceiling Increase to Complete the Time-Critical Removal Action at the Michigan Chrome and Chemical Site, Detroit, Wayne County, Michigan (Site ID #B550)

**FROM:** P.C. Lall, On-Scene Coordinator  
Emergency Response Branch - Section 1

**TO:** William E. Muno, Director  
Superfund Division

**THRU:** Wendy L. Carney, Acting Chief  
Emergency Response Branch

**I. PURPOSE**

The purpose of this memorandum is to request and document approval to expend an additional \$112,080 which, in addition to the previously approved project ceiling of \$321,200, brings the total project ceiling to \$433,280 to complete the time-critical removal action at the Michigan Chrome and Chemical (MCC) Site in Detroit, Wayne County, Michigan. Emergency and Rapid Response Services contractor personnel mobilized to the site to begin Phase I removal activities on December 10, 1998. Wastes remaining on site include 76 drums of F006 sludge from the plating waste water treatment area, approximately 2,500 gallons of contaminated waste water and a roll-off box of contaminated personal protective equipment (PPE) and debris. One section (pit 2) of the waste water treatment clarifier continues to recharge and contains sludge different from the F006 sludge already packaged for disposal. This pit, as well as the source of subsurface flow into the pit, needs to be investigated to understand the extent of contamination and determine the need of a Phase II removal action. Since mobilization, additional contaminated areas have been discovered. As a result, additional funding is being requested at this time. This ceiling increase will be used to fund disposal of the remaining waste as well as to investigate the sources of subsurface contamination.

EPA Region 5 Records Ctr.



236747

The MCC site is not on the National Priorities List (NPL).

## **II. SITE CONDITIONS AND BACKGROUND**

CERCLIS ID #MID 005 378 161

### **A. Physical Location and Description**

For a description of site conditions and background information, see the attached Action Memorandum dated October 19, 1998.

The MCC Site is located at 8615-35 Grinnell Avenue, Detroit, Wayne County, Michigan 48213 (Latitude 42°23'50"N and Longitude 83°00'5"W). The site is approximately 10 acres and consists of two separate properties located in a mixed residential/industrial area. The properties are bordered to the south by Grinnell Street, to the east by industrial operations, to the north by the Detroit Terminal Railroad tracks, and to the west by Erwin Street. The closest residences are south of Grinnell Street, approximately 50 yards from the site. Approximately 16,570 persons live within a 1-mile radius of the site, 14 percent of which are Black and 26 percent are Hispanics. Median household income is approximately \$13,100. Houses in the area are 45.8 percent owner occupied.

### **B. Removal Actions to Date**

Please refer to the attached Action Memorandum dated October 19, 1998. Since December 10, 1998, the following activities have been conducted:

- 1) A site specific health and safety plan has been developed and implemented;
- 2) Site security measures have been provided which include, but are not limited to, security guard service, signs, and repairs to fence;
- 3) Hazardous wastes and hazardous materials from vents, vats, floor piles, surface trenches, tanks, lab packs, and other containers have been sampled, characterized, packaged, and disposed of off-site;
- 4) Exposed asbestos-containing material has been characterized and disposed of off-site;
- 5) Plating waste treatment sludge F006 has been packaged and is awaiting disposal; and
- 6) Sections of contaminated floors and catch basins have been sampled.

The ceiling increase being requested will provide the funding necessary for Phase I project completion consisting of disposal of the remaining sludge, contaminated waste water, and PPE, as well as investigation of subsurface contamination.

### **III. THREATS TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

The conditions at the MCC Site continue to present an imminent and substantial threat to public health or welfare and the environment and meet the criteria for a removal action as stated in the National Contingency Plan (NCP), 40 CFR § 300.415 (b)(2), specifically:

- a) Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;

Seventy-six drums of F006 plating sludge are staged on site awaiting disposal at an off-site disposal facility. In addition, the pit has approximately 2,500 gallons of hazardous waste water contaminated with high levels of chromium and cadmium that needs to be disposed of off site.

- b) High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate;

Analytical results indicated that surface soils in the vent room and plating room contain high levels of chromium (51,837 mg/kg total, 166 mg/kg Toxicity Characteristic Leaching Procedure (TCLP) which is over 30 times greater than the Resource Conservation and Recovery Act (RCRA) regulatory limit) and cyanide (212 mg/kg). The depth and horizontal extent of contamination needs to be investigated prior to further removal and/or remedial action.

- c) Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released;

There are leaks in sections of the roof so rainwater can enter the contaminated areas causing migration of the contaminants. In addition, a section of the waste water treatment sludge pit keeps recharging through the subfloor piping system that needs to be investigated.

### **IV. ENDANGERMENT DETERMINATION**

Given the site conditions, the nature of the suspected hazardous substances on site, and the potential exposure pathways described in Sections II and III above, actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response actions selected in this Action Memorandum, may present

an imminent and substantial endangerment to public health, or welfare, or the environment.

## **V. PROPOSED ACTIONS AND ESTIMATED COSTS**

The OSC proposes to conduct the following actions to mitigate threats posed by the presence of hazardous substances at the MCC Site:

- 1) Continue to implement a site health and safety plan and emergency contingency plan;
- 2) Continue to implement appropriate site security measures;
- 3) *Arrange transportation and disposal of the F006 sludge, contaminated waste water, and PPE; and*
- 4) Conduct post cleanup sampling, characterization, and analysis of site surface, subsurface, and run-off areas to document completeness of the removal action.

All hazardous substances, pollutants, or contaminants removed off site pursuant to this removal action for treatment, storage, and disposal shall be treated, stored, or disposed of at a facility in compliance with the U.S. EPA Off-Site Rule, 40 CFR § 300.440, 58 Fed. Reg. 49215 (1993).

The OSC has begun planning for the provision of post-removal site control consistent with the provisions of Section 300.415 (I) of the NCP.

The response actions described in this memorandum directly address the actual or threatened release at the site of a hazardous substance, or of a pollutant, or of a contaminant which may pose an imminent and substantial endangerment to public health or welfare or to the environment. These actions do not impose a burden on affected property disproportionate to the extent to which that property contributes to the conditions being addressed. It is anticipated that time-critical removal activities will take approximately 8 on-site working days to complete.

The detailed cleanup contractor costs are presented in Attachment 1 and estimated project costs are summarized below:

**REMOVAL PROJECT CEILING ESTIMATE**

**EXTRAMURAL COSTS:**

	<b><u>CURRENT CEILING</u></b>	<b><u>PROPOSED INCREASE</u></b>	<b><u>PROPOSED CEILING</u></b>
Cleanup Contractor Costs	\$180,900	\$ 36,000	\$216,000
Contingency (15%)	<u>27,000</u>	<u>5,400</u>	<u>32,400</u>
Subtotal	\$207,000	\$ 41,400	\$248,400
 Total START	 <u>28,000</u>	 <u>27,000</u>	 <u>55,000</u>
Extramural Subtotal	\$235,000	\$ 68,400	\$303,400
 Extramural Contingency (20%)	 <u>\$ 47,000</u>	 <u>\$ 13,680</u>	 <u>\$ 60,680</u>
<b>TOTAL EXTRAMURAL COSTS</b>	<b>\$282,000</b>	<b>\$ 82,080</b>	<b>\$364,080</b>

**INTRAMURAL COSTS:**

U.S. EPA Direct Costs	\$ 13,200	\$ 10,000	\$ 23,200
U.S. EPA Indirect Costs	<u>\$ 26,000</u>	<u>\$ 20,000</u>	<u>\$ 46,000</u>
 TOTAL INTRAMURAL COSTS	 <u>\$ 39,200</u>	 <u>\$ 30,000</u>	 <u>\$ 69,200</u>
	=====	=====	=====
<b>TOTAL REMOVAL PROJECT CEILING</b>	<b>\$321,200</b>	<b>\$112,080</b>	<b>\$433,280</b>

**Applicable or Relevant and Appropriate Requirements**

All applicable, relevant, and appropriate requirements (ARARs) will be complied with to the extent practicable. A letter was sent to Mr. Jon Russell of the Michigan Department of Environmental Quality (MDEQ) on April 28, 1998, requesting that the MDEQ identify State ARARs. Any State ARARs identified in a timely manner for this removal action will be complied with to the extent practicable.

**VII. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

Continued risk to public health and the environment will result if no action or delayed action ensues.

**VIII. OUTSTANDING POLICY ISSUES**

There are no outstanding policy issues associated with this site.

**IX. ENFORCEMENT**

For administrative purposes, information concerning the enforcement strategy for this site is contained in the Enforcement Confidential Addendum.

**X. RECOMMENDATION**

This decision document represents the selected removal action for the MCC Site developed in accordance with CERCLA, as amended, and is not inconsistent with the NCP. This decision is based upon the Administrative Record for the site. Conditions at the site continue to meet the NCP Section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed ceiling increase of \$112,080. The total project ceiling, if approved, will be \$433,280. Of this, an estimated \$309,080 may be used for cleanup contractor costs. You may indicate your decision by signing below.

APPROVE: W. E. [Signature] DATE: 4/7/99  
Director, Superfund Division

DISAPPROVE: \_\_\_\_\_ DATE: \_\_\_\_\_  
Director, Superfund Division

Enforcement Addendum

Attachments

1. Detailed Cleanup Contractor Cost Estimate
2. Administrative Record Index
3. Action Memorandum dated October 19, 1998

cc: K. Mould, U.S. EPA, 5202-G  
M. Chezik, U.S. Dept. of the Interior, w/o Enf. Addendum  
A. Howard, MDEQ, w/o Enf. Addendum  
R. Harding, MDEQ, w/o Enf. Addendum  
J. Granholm, MI Dept. of Attorney General, w/o Enf. Addendum

**BCC PAGE**

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**REDACTED**

**NOT RELEVANT TO THE SELECTION OF THE  
REMOVAL ACTION**

**ENFORCEMENT ADDENDUM  
MICHIGAN CHROME AND CHEMICAL SITE  
APRIL, 1999**

**(1 PAGE)**

**REDACTED**

**NOT RELEVANT TO THE SELECTION OF THE  
REMOVAL ACTION**

## **ATTACHMENT 1**

### **DETAILED CLEANUP CONTRACTOR COST ESTIMATE MICHIGAN CHROME AND CHEMICAL SITE DETROIT, MICHIGAN**

**APRIL 1999**

The estimated cleanup contractor costs necessary to complete the removal action at the Michigan Chrome and Chemical Site are as follows:

Personnel	\$ 8,000
Equipment & Materials	\$ 2,000
Sampling & Analysis	\$12,000
<i>Transportation and Disposal</i>	<u>\$14,000</u>
<b>Total</b>	<b>\$36,000</b>

## LABOR

## EQUIPMENT & MATERIALS

## SAMPLING & ANALYSIS

## TRANSPORTATION & DISPOSAL

Hazardous wastewater	\$2,000
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PPE & Contaminated Debris	\$3,000
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Cleanup Contractor Total	\$36,000
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## ATTACHMENT 2

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REMOVAL ACTIONADMINISTRATIVE RECORD  
FOR  
MICHIGAN CHROME AND CHEMICAL SITE  
DETROIT, WAYNE COUNTY, MICHIGANORIGINAL  
MAY 7, 1998

<u>NO.</u>	<u>DATE</u>	<u>AUTHOR</u>	<u>RECIPIENT</u>	<u>TITLE/DESCRIPTION</u>	<u>PAGES</u>
1	01/15/98	Powers, R., City of Detroit	El-Zein, J., U.S. EPA	FAX Transmission re: Referral of the Michigan Chrome and Chemical Site to U.S. EPA	4
2	04/08/98	Ecology and Environment, Inc.	U.S. EPA	Site Assessment Report for the Michigan Chrome and Chemical Site	16
3	04/28/98	Lall, P., U.S. EPA	Russell, J., MDEQ	Letter re: U.S. EPA's Request for Michigan ARARs for the Michigan Chrome and Chemical Site	1
4	07/02/98	Lall, P., U.S. EPA	Muno, W., U.S. EPA	Action Memorandum: Determination of Threat to Public Health, Welfare or the Environment at the Michigan Chrome and Chemical Site (PORTIONS OF THIS DOCUMENT HAVE BEEN REDACTED)	12

UPDATE #1  
OCTOBER 27, 1998

1	10/19/98	Lall, P., U.S. EPA	Muno, W., U.S. EPA	Action Memorandum: Request for a Time- Critical Removal Action at the Michigan Chrome and Chemical Site (PORTIONS OF THIS DOCU- MENT HAVE BEEN REDACTED)	15
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<u>NO.</u>	<u>DATE</u>	<u>AUTHOR</u>	<u>RECIPIENT</u>	<u>TITLE/DESCRIPTION</u>	<u>PAGES</u>
			<u>UPDATE #2</u> APRIL 5, 1999		
1	04/09/99	Lall, P., U.S. EPA	Muno, W., U.S. EPA	Action Memorandum: Request for a Ceiling Increase to Complete the Time-Critical Removal Action at the Michigan Chrome and Chemical Site (PENDING)	27



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
9311 GROH ROAD, ROOM 216  
GROSSE ILE, MI 48138-1697

OCT 19 1998

REPLY TO ATTENTION OF:

**MEMORANDUM**

**SUBJECT:** ACTION MEMORANDUM - Request for a Time-Critical Removal Action at the Michigan Chrome and Chemical Site, Detroit, Wayne County, Michigan (Site ID #B550)

**FROM:** P.C. Lall, On-Scene Coordinator *P.C. Lall*  
Emergency Response Branch - Section 1

**TO:** William E. Muno, Director  
Superfund Division

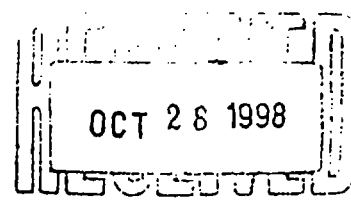
**THRU:** Richard C. Kark *R. Kark*  
Emergency Response Branch

**I. PURPOSE**

The purpose of this memorandum is to request and document your approval to expend up to \$321,200 in order to abate an imminent and substantial threat to public health and the environment posed by the presence of contaminated soils, piles of metallic plating wastes, plating sludges and laboratory chemicals at the inactive and badly vandalized Michigan Chrome and Chemical (MCC) Company Site in Detroit, Wayne County, Michigan. Drums containing corrosive materials are also present in the open yard at the facility.

The actions proposed herein will mitigate site conditions by investigating the extent of surface contamination at the site and by implementing a removal action. Negotiations with the Responsible Party have been ongoing but the Responsible Party has declined to conduct a removal claiming financial inability to perform the removal action despite earlier assurances to conduct the removal. The fact that releases of hazardous substances have already occurred and are likely to continue until removal activities have been completed requires that on-site activities be considered time critical.

The MCC site is not on the National Priorities List (NPL).



## II. SITE CONDITIONS AND BACKGROUND

CERCLIS ID #MID 005 378 161

### A. Physical Location and Description

The MCC Site is located at 8615-35 Grinnell Avenue, Detroit, Wayne County, Michigan 48213 (Latitude 42°23'50"N and Longitude 83°00'5"W). The site is approximately 10 acres and consists of two separate properties located in a mixed residential/industrial area. The properties are bordered to the south by Grinnell Street, to the east by industrial operations, to the north by the Detroit Terminal Railroad tracks, and to the west by Erwin Street. The closest residences are south of Grinnell Street, approximately 50 yards from the site. Approximately 16,570 persons live within a 1-mile radius of the site, 14 percent of which are Black and 26 percent are Hispanics. Median household income is approximately \$13,100. Houses in the area are 45.8 percent owner occupied.

The area surrounding the site meets the Category One Environmental Justice criteria as employed by the United States Environmental Protection Agency's (U.S. EPA) Superfund Program.

### B. Site Background

The site owner-operator is Mr. Robert Huber. MCC currently is not an operating facility. During the operating years, the company was an industrial electroplating and coating facility, and the process produced an array of hazardous waste streams that included waste cyanide sludge, metal hydroxide sludge, and various organic solvents.

The site was referred to the U.S. EPA, Emergency Response Section 1, by the City of Detroit, Department of Environmental Affairs, on January 6, 1998. On February 5, 1998, the On-Scene Coordinator (OSC), along with members of the START team, conducted a reconnaissance walk through on site. Access was provided by the property owner, Mr. Huber, who, along with his attorney and consultants, also accompanied the U.S. EPA group for a site walk through.

Piles of metallic plating solids were observed on the floors in various locations in the building. The concrete floor in the cyanide treatment area was severely etched by corrosive chemicals. Long trenches connecting various process areas were full of sludge and sediment. Plating wastewater pretreatment tanks were full of liquid. Containers of chemicals and paints of various sizes were scattered around throughout the buildings and the laboratories. Many containers had labels indicating corrosive materials, flammables, and mercury as the contents. Outside the building, in an uncovered fenced area, were hundreds of 55-gallon drums, vats, and tanks containing various hazardous and nonhazardous materials.

Two solid samples from floors and a liquid sample from the wastewater tanks were taken. These samples were split with Environmental Consulting and Technology, Inc., consultant to MCC. Analytical data revealed high levels of heavy metals and cyanide in the solid samples. Toxicity Characteristic Leachate Procedure (TCLP) analysis indicated the leachate cadmium concentration is three times the Resource Conservation and Recovery Act (RCRA) levels allowed in the soils. The cyanide concentration is almost twice the level allowed based upon the direct contact exposure scenario.

### **III. THREATS TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

The conditions at the MCC Site present an imminent and substantial threat to public health, welfare, and the environment and meet the criteria for a removal action provided for in the National Contingency Plan (NCP), Section 300.415, paragraph (b)(2), specifically:

- a) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;

Numerous containers, potentially containing hazardous materials and hazardous wastes, are present on site. Site soils have high levels of heavy metals and cyanides. The site is easily accessible and plenty of evidence of trespassing activity was evident. Dead rats were observed in the open trenches.

- b) Hazardous substances, pollutants, or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;

The outdoor storage area contained numerous containers of all sizes and types (vats, drums, tanks, small containers). Most of the containers were empty and unlabeled. A few containers held varying amounts of liquids. Drum labels observed included hydrogen peroxide 35 percent, irilac 1012 (a protective coating for metals), hydrocyanic acid salt and caustic soda. This area also contained bags of powder and debris. Some of these drums and vats are open and exposed, subject to leakage as well as subject to dermal contact when accessed by humans or animals. Unlabeled containers with incompatible materials may be stored near each other and may react violently if mixed inadvertently. Continued vandalism and uncontrolled destructive activity at the site could result in the release of such contaminants to the soil (surface and subsurface) and the groundwater at the site.

- c) High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate;

Analytical results indicated that surface soils contained elevated levels of heavy metals (copper, chromium, cadmium, and zinc up to 900 mg/kg) and cyanide (14,000 mg/kg). TCLP analysis indicated the leachate cadmium concentration is three times the RCRA levels allowed in the

soils. The cyanide concentration is almost twice the level allowed based upon the direct contact exposure scenario. There were only two samples taken; however, a complete extent-of-contamination study of the surface soils is necessary to identify all the contaminated areas. Surface trenches are full of sludge potentially from plating processes. This sludge needs to be analyzed and removed. Tracking of contaminated soils, sludges, as well as release of contaminants from soils to groundwater, could potentially have occurred and would continue to occur unless the surface contamination is addressed.

- d) Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released;

There are leaks in sections of the roof so rainwater can enter the contaminated areas causing migration of the contaminants. The drums and other containers stored outside the buildings are exposed to the elements and are subject to deterioration.

#### **IV. ENDANGERMENT DETERMINATION**

Given the site conditions, the nature of the suspected hazardous substances on site, and the potential exposure pathways described in Sections II and III above, actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response actions selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

#### **V. PROPOSED ACTIONS AND ESTIMATED COSTS**

The OSC proposes to conduct the following actions to mitigate threats posed by the presence of hazardous substances at the MCC site:

- 1) Develop and implement a site health and safety plan and an emergency contingency plan;
- 2) Implement appropriate site security measures;
- 3) Conduct comprehensive site investigation activities, including site sampling and analysis necessary to fully characterize the nature and extent of contamination;
- 4) Identify, package, and dispose of all hazardous materials and wastes, including contaminated soils and lab containers from the entire site in accordance with Federal, State, and local regulations; and
- 5) Conduct post cleanup sampling and analysis to document completeness of the removal action.

All hazardous substances, pollutants, or contaminants removed off site pursuant to this removal action for treatment, storage, and disposal shall be treated, stored, or disposed of at a facility in compliance with the U.S. EPA Off-Site Rule, 40 CFR § 300.440, 58 Federal Register 49215 (September 22, 1993).

The OSC has initiated consideration of post-removal site control consistent with the provisions of Section 300.415 (l) of the NCP. Elimination of all surface threats is, however, expected to minimize the need for post removal site control.

The response actions described in this memorandum directly address the actual or threatened release at the site of a hazardous substance, or of a pollutant, or of a contaminant which may pose an imminent and substantial endangerment to public health or welfare or to the environment. These actions do not impose a burden on affected property disproportionate to the extent to which that property contributes to the conditions being addressed. It is anticipated that time-critical removal activities will take approximately 40 on-site working days to complete.

The detailed cleanup contractor costs are presented in Attachment 1 and estimated project costs are summarized below:

#### REMOVAL PROJECT CEILING ESTIMATE

##### EXTRAMURAL COSTS:

Cleanup Contractor Costs	\$180,000
Contingency (15%)	27,000
Subtotal	\$207,000
Total START	28,000
Extramural Subtotal	\$235,000
Extramural Contingency (20%)	\$ 47,000
TOTAL EXTRAMURAL COSTS	\$282,000

##### INTRAMURAL COSTS:

U.S. EPA Direct Costs	
[(\$30 x (400 Regional Hours + 40 HQ Hours)]	\$ 13,200
U.S. EPA Indirect Costs	
(\$65 x 400 Regional Hours)	26,000
TOTAL INTRAMURAL COSTS	\$ 39,200
TOTAL REMOVAL PROJECT CEILING ESTIMATE	\$321,200

**Applicable or Relevant and Appropriate Requirements**

All applicable, relevant, and appropriate requirements (ARARs) will be complied with to the extent practicable. A letter was sent to Mr. Jon Russell of the Michigan Department of Environmental Quality (MDEQ) on April 28, 1998, requesting that the MDEQ identify State ARARs. Any State ARARs identified in a timely manner for this removal action will be complied with to the extent practicable.

**VII. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

Continued risk to public health and the environment will result if no action or delayed action ensues.

**VIII. OUTSTANDING POLICY ISSUES**

There are no outstanding policy issues associated with this site.

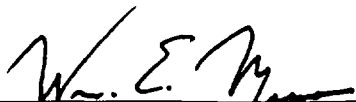
**IX. ENFORCEMENT**

For administrative purposes, information concerning the enforcement strategy for this site is contained in the Enforcement Confidential Addendum.

**X. RECOMMENDATION**

This decision document represents the selected removal action for the MCC Site developed in accordance with CERCLA, as amended, and is not inconsistent with the NCP. This decision is based upon the Administrative Record for the site. Conditions at the site meet the NCP Section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed removal action. The total project ceiling, if approved, will be \$321,200. Of this an estimated \$254,000 may be used for cleanup contractor costs. You may indicate your decision by signing below.

APPROVE:

  
Director, Superfund Division

DATE:

10/12/98

DISAPPROVE:

\_\_\_\_\_  
Director, Superfund Division

DATE: \_\_\_\_\_

Enforcement Addendum

Attachment

1. Detailed Cleanup Contractor Cost Estimate
2. Administrative Record Index

cc: K. Mould, U.S. EPA, 5202-G  
M. Chezick, U.S. Dept. of the Interior, w/o Enf. Addendum  
A. Howard, MDEQ, w/o Enf. Addendum  
R. Harding, MDEQ, w/o Enf. Addendum  
F. Kelley, MI Dept. of Attorney General, w/o Enf. Addendum

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**REDACTED**

**NOT RELEVANT TO THE SELECTION OF THE  
REMOVAL ACTION**

**ENFORCEMENT ADDENDUM  
MICHIGAN CHROME AND CHEMICAL SITE  
OCTOBER, 1998**

**(1 PAGE)**

**REDACTED**

**NOT RELEVANT TO THE SELECTION OF THE  
REMOVAL ACTION**

ATTACHMENT 1

DETAILED CLEANUP CONTRACTOR COST ESTIMATE  
MICHIGAN CHROME AND CHEMICAL SITE  
DETROIT MICHIGAN

OCTOBER 1998

The estimated cleanup contractor costs necessary to complete the removal action at the Michigan Chrome and Chemical Site are as follows:

Personnel	\$ 80,000
Equipment & Materials	30,000
Sampling & Analysis	15,000
Transportation & Disposal	<u>55,000</u>
Total	\$180,000

ATTACHMENT 2

ADMINISTRATIVE RECORD INDEX  
MICHIGAN CHROME AND CHEMICAL SITE  
DETROIT, WAYNE COUNTY, MICHIGAN

OCTOBER 1998

DATE	AUTHOR	RECIPIENT	TITLE/DESCRIPTION	PAGES
1/15/98	R. Powers City of Detroit	J. El-Zein U.S. EPA	Fax Referral for Michigan Chrome Site	5
4/8/98	E&E START	G. Nabasny U.S. EPA	START Site Assessment Letter Report	16+ pictures
04/28/98	P.C. Lall	J. Russell	Letter Requesting State ARARs	1
00/00/98	P.C. Lall U.S. EPA	W. Muno U.S. EPA	This Action Memo (Pending)	

**INDEPENDENT GOVERNMENT COST ESTIMATE  
MICHIGAN CHROME AND CHEMICAL SITE**

**(1 PAGE)**

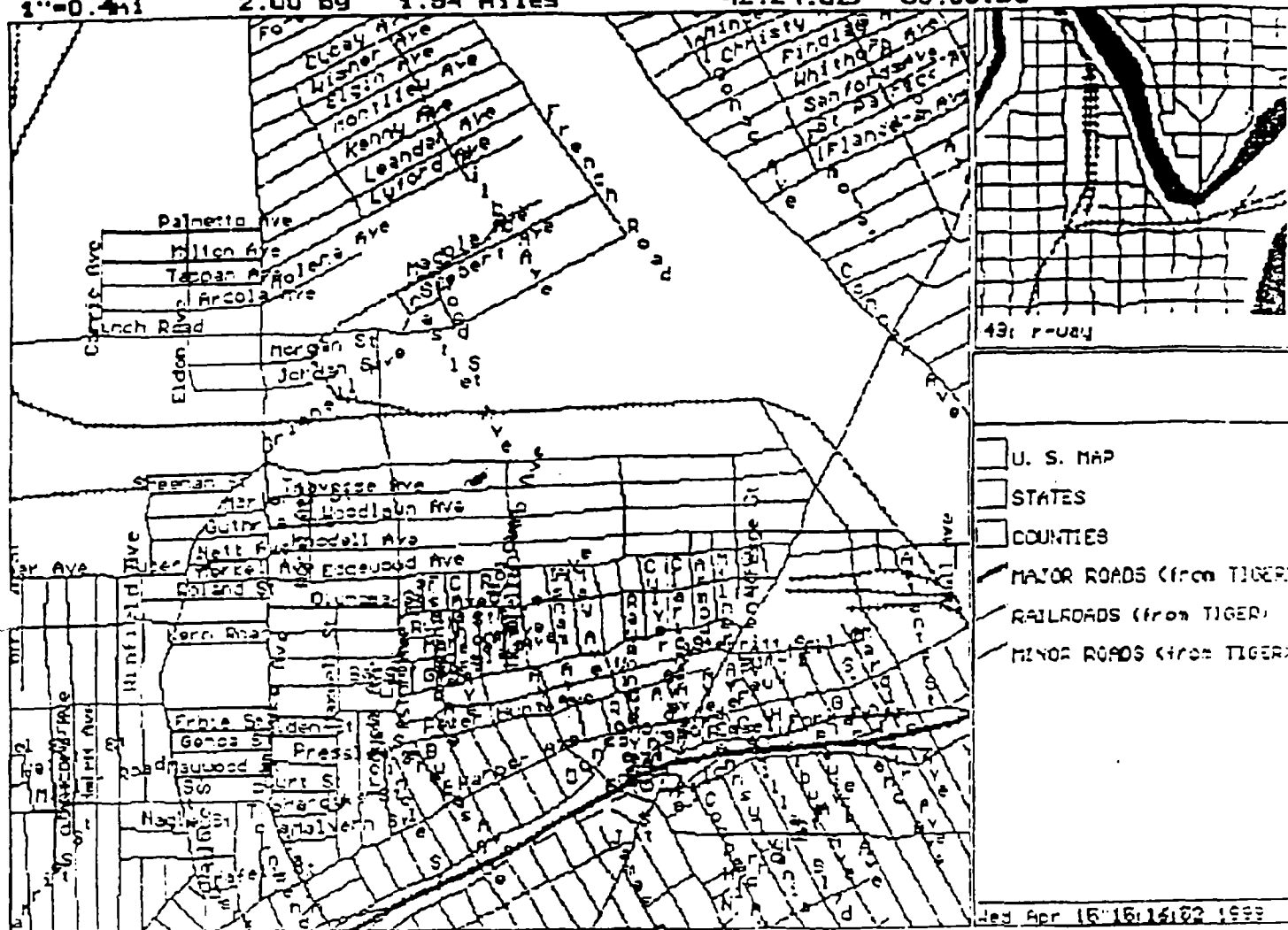
**REDACTED**

**NOT RELEVANT TO THE SELECTION OF THE  
REMOVAL ACTION**

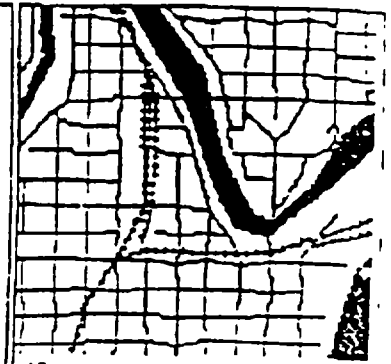
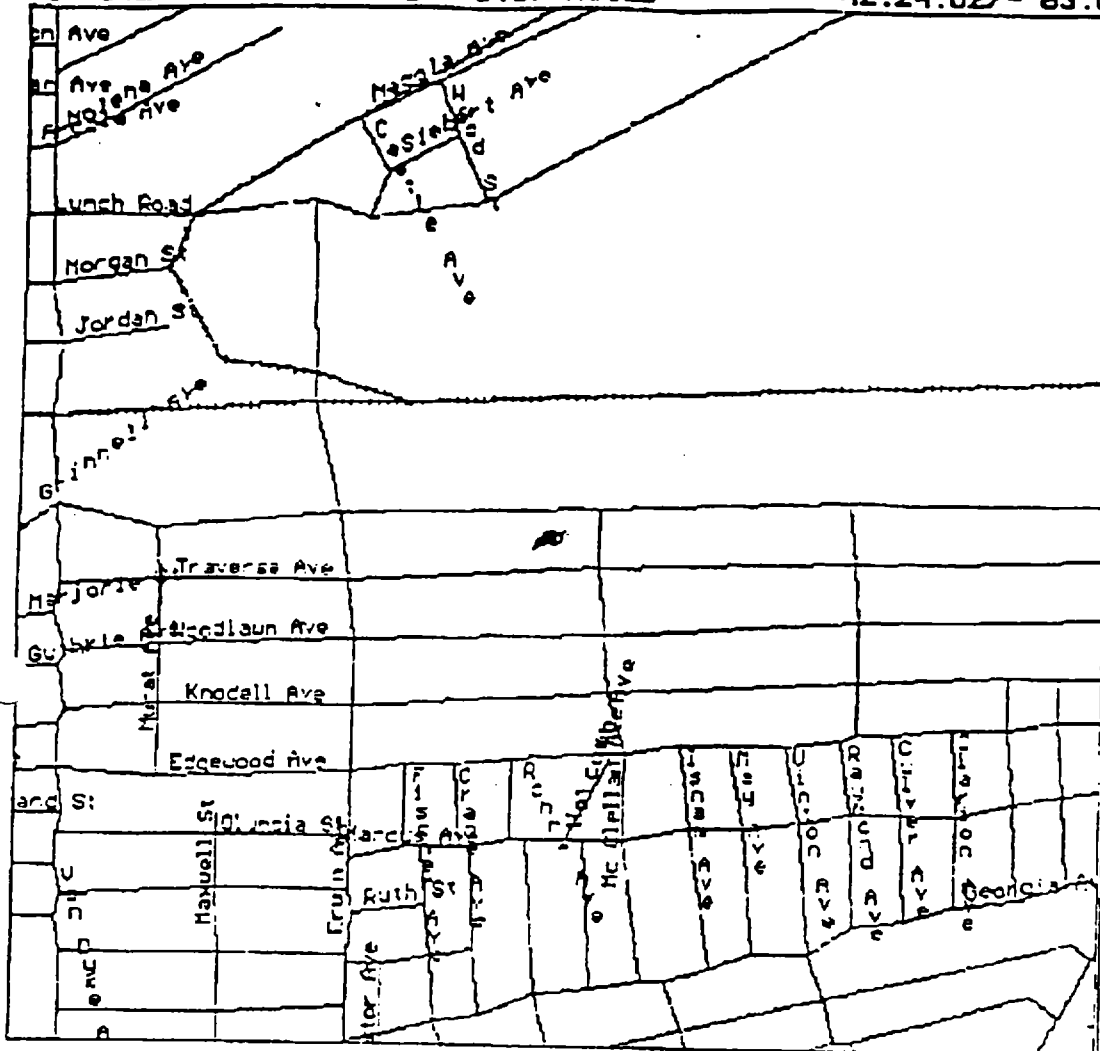
# POPULATION SUMMARY

LOCATION	:	1.0 mi. radius at
42.300143, -83.110633		
# BLOCK GROUPS INCLUDED	:	21
NUMBER OF PERSONS	:	16572
NUMBER OF FAMILIES	:	3970
NUMBER OF HOUSEHOLDS	:	5701
MEDIAN (EST.) HOUSEHOLD INCOME:		13118
AGE 0 THRU 4	:	1851
AGE 5 THRU 9	:	1506
AGE 10 THRU 19	:	2618
AGE 20 THRU 49	:	7149
AGE 50 THRU 64	:	1842
AGE 65 AND OVER	:	1606
WHITE	:	11141
BLACK	:	2313
INDIAN	:	205
ASIAN	:	100
OTHER RACE	:	2813
HISPANIC	:	4375
OWNER OCCUPIED	:	2610
RENTER OCCUPIED	:	3091
PERCENT AGE 0 THRU 4	:	11.2
PERCENT AGE 5 THRU 9	:	9.1
PERCENT AGE 10 THRU 19	:	15.8
PERCENT AGE 20 THRU 49	:	43.1
PERCENT AGE 50 THRU 64	:	11.1
PERCENT AGE 65 AND OVER	:	9.7
PERCENT WHITE	:	67.2
PERCENT BLACK	:	14.0
PERCENT INDIAN	:	1.2
PERCENT ASIAN	:	0.6
PERCENT HISPANIC	:	26.4
PERCENT OTHER RACE	:	17.0
PERCENT OWNER OCCUPIED	:	45.8
PERCENT RENTER OCCUPIED	:	54.2-

42.24.02/- 83.00.50



42.24.02/- 83.00.50



49: r-uay

- ☐ U. S. MAP  
☐ STATES  
☐ COUNTIES  
☒ MAJOR ROADS (from TIGER)  
☒ RAILROADS (from TIGER)  
☒ MINOR ROADS (from TIGER)

Dec for 15 16, 16, 32 1956